

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
**WO 2005/011568 A2**

- (51) International Patent Classification<sup>7</sup>: **A61K**
- (21) International Application Number:  
PCT/IL2004/000725
- (22) International Filing Date: 4 August 2004 (04.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
157233 4 August 2003 (04.08.2003) IL
- (71) Applicant (for all designated States except US): **GREEN PLANT-BASED INDUSTRIES LTD.** [IL/IL]; Refael AHARON, 4 Ha'eshel st., 98531 Ma'ale Adumim (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **AHARON, Refael** [IL/IL]; 4 Ha'eshel st., 98531 Ma'ale Adumim (IL).
- (74) Agent: **BRESSLER, Eyal**; DR EYAL BRESSLER LTD., 8 Hamarpe St., Har Hotzvim, POB 45220, 91450 Jerusalem (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR EXTRACTING VITAL COMPONENTS FROM PLANTS

(57) Abstract: The present invention presents a cost effective process for separating between liquids extracted from whole plants or plant parts and the solid plant residue, and performing concurrent sterilization of both substances. This novel method comprising fast deep-freezing said whole plant(s) or parts thereof; crushing the deep-frozen whole plant(s), or parts thereof, thereby obtaining a bioextract; defrosting said bioextract mixture so as to allow drainage of the liquids from the defrosted bioextract mixture; and, separating between the liquids and the solid substance of the defrosted bioextract mixture such that a sterile product is obtained. The present invention also discloses sterile cosmetic, food, beverage, nutraceutical or pharmaceutical compositions, which comprises a natural mineral-rich plant tissue(s) component(s) obtained by this process.